

ABSTRACT

A DC to DC converter having improved transient response, accuracy, and stability. The DC to DC converter includes a first comparator configured to compare a first signal with a second signal. The first signal has a DC offset determined, at least in part, by a DC reference voltage source. The second signal is representative of an output voltage level of the DC to DC converter. The comparator is further configured to provide a control signal to a driver based on a difference between the first signal and the second signal, the driver driving the output voltage of the DC to DC converter. The DC to DC converter further includes an accuracy circuit to enhance accuracy of the DC to DC converter. The DC to DC converter may further include a stability circuit to enhance stability of the DC to DC converter.